UNIVERSITY OF LOUISIANA AT LAFAYETTE

PHYSICS 215

Catalog Data: Introduction to Physics Laboratory I. (0,3,1). Experiments illustrating

principles in mechanics, waves, and thermodynamics. Prereq: Phys 207 or

201.

Textbook: Physics 215 Laboratory manual, written by W. Andrew Hollerman

Coordinator: Natalia Sidorovskaia, Chair of the Physics Department

Topics: [one (1) to two (2) lab periods are assigned to perform the experiments listed

below]

1. Experiment I: Data Analysis

2. Experiment II: Acceleration Due to Gravity

3. Experiment III: Newton's Second

4. Experiment IV: Conservation of Energy5. Experiment V: One-dimensional Collisions

6. Experiment VI: Angular Motion

7. Experiment VII: Simple Harmonic Motion

8. Experiment VIII: Standing Waves

9. Experiment IX: The Specific Heat of a Metal

10. Experiment X: Gas Laws

Grades: Grades will be assigned based on the students' performance on laboratory

work, laboratory reports and examinations. A schedule of these will be

provided separately.